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Inventors : Stephen W. Day, Daniel M. Hutcheson & G. Scott Campbell
Serial No. : 09/749,064
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Title : FIBER REINFORCED COMPOSITE CORES AND PANELS
Group Art Unit : 1772
Docket : 7751

TC 1700

Commissioner for Patents
Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with the provisions of 37 C.F.R. §1.56 and §1.97, Applicants enclose copies of the 16 references identified on attached Form PTO/SB/08A and considered by Applicants and their attorneys during the preparation of the above application.

With respect to the references, they are being cited for their disclosures briefly described after each reference as follows:

Derr et al No. 3,339,326 -- Resin-impregnated sheets of glass fabric are placed between triangular foam plastic strips encased in thin metal sheathes to form a sandwich panel core.

Corzine No. 3,544,417 -- Panels comprised of foam strips separated by continuous fiberglass fabric are impregnated with resin and nested together to form sandwich panels.

Kaczerginski No. 3,567,541 -- Glass fibers are impregnated with resin, applied longitudinally and wrapped circumferentially around a foam plastic core to form a structural element.

Windecker No. 4,196,251 -- Fiber segments are stitched perpendicularly through an open-cell foam board having skins, the board is saturated with resin, and excess resin is squeezed from the board.

Brogan No. 4,223,053 -- Composite tubes of triangular cross section are formed by winding resin-coated fibers on a mandrel. Layers of the tubes comprise a sandwich panel core.

Hawkins et al No. 4,411,939 -- Porous fiberglass fabric is wrapped around three faces of foam plastic strips, the strips and overlying skin fabric are attached together adhesively and by rows of stitching parallel to the strips, and resin is flowed throughout the fabrics, in part through grooves which extend between the faces of the panel.

Michaud-Soret No. 4,617,217 -- Layers of glass fabric impregnated with resin are wound around foam plastic strips to form connector elements which extend between webs of a beam-like structure, but do not extend between faces of the beam.

Williams No. 5,108,810 -- Resin impregnated fibers are braided around a mandrel to form a plurality of tubular structural members which are placed in layers to form a composite core.

Seemann et al No. 5,721,034, and No. 5,958,325 -- Foam plastic blocks are each provided with a network of resin channels connected to a feeder channel of larger cross-sectional area. The blocks are wrapped in fabric and a plurality of them are placed between porous, fibrous skins, and resin is flowed throughout the fibrous structure.

Day No. 5,834,082 -- A plurality of alternating plastics foam strips and porous, fibrous webs are attached together to form a composite core, and resin extends through the webs to skins attached to opposing faces of the foam strips by the resin.

Tunis et al No. 5,904,972 and No. 6,159,414 -- A plurality of individual blocks comprising foam plastic or hollow cells are placed in a mold between porous, fibrous reinforcing skins. Each block is configured to provide resin channels which extend between the skins. Resin is flowed throughout the reinforcements by vacuum.

Sennebogen DE2236479 -- Continuous porous fiberglass rovings are stitched through a foam plastic board at perpendicular or acute angles to form rod-like reinforcing elements having loops on one end adjacent the faces of the board. Glass fiber mat is placed over



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TC 1700

the stitched core, resin is applied, and vacuum is used to distribute the resin through the reinforcing elements.

Barber et al GB2253588A -- Resin impregnated glass cloth surrounds foam plastic strips in a corrugated pattern between glass cloth skins.

Maquet EP0672805 -- Continuous porous rovings are stitched through fibrous skins and a closed cell foam plastic board to form rows of rod-like elements inclined at opposing angles and having protruding loops on one end of the rods. Resin is flowed from the skin into the core rods.

Respectfully submitted,

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Enclosures

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on

April 13, 2001

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